To: Russ, Timothy[Russ.Tim@epa.gov]; Patulski, Meg[patulski.meg@epa.gov]
Cc: Dresser, Chris[Dresser.Chris@epa.gov]
From: Berry, Laura
Sent: Thur 12/1/2016 4:47:19 PM
Subject: RE: Information Transmittal from FHWA/CDOT: I-70 East Project PM Hot-spot Modeling Background Monitor

Hi Tim,

Ex. 5 - Deliberative Process

Laura Berry

(734) 214-4858

berry.laura@epa.gov

From: Russ, Timothy
Sent: Thursday, December 01, 2016 10:38 AM
To: Berry, Laura <berry.laura@epa.gov>; Patulski, Meg <patulski.meg@epa.gov>
Cc: Dresser, Chris <Dresser.Chris@epa.gov>
Subject: FW: Information Transmittal from FHWA/CDOT: I-70 East Project PM Hot-spot Modeling Background Monitor

Hi Laura,

Ex. 5 - Deliberative Process

Referred to FHWA

Ex. 5 - Deliberative Process

"Mon 6/20/2016 2:56 PM

Ex. 5 - Deliberative Process

Hi Everyone,

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

EPA's November, 2015 PM Hot-spot modeling guidance ("Transportation Conformity Guidance for Quantitative Hot-spot Analyses in $PM_{2.5}$ and PM_{10} Nonattainment and Maintenance Areas") notes the following in section 9.3.4 *24-hour PM_{10} NAAQS*:

Calculating Design Values and Determining Conformity

The 24-hour PM_{10} design value is calculated at each receptor by directly adding the sixth-highest modeled 24-hour concentrations (if using five years of meteorological data) to the

appropriate monitor value for the 24-hour background concentration from three years of monitoring data, based on Exhibit 9-6.[153] Exhibit 9-6: Monitor Value Used for Design Value Calculation

Number of Background Concentration Values from the Monitor	Monitor Value Used for Design Value Calculation
< 347	Highest Monitor Value
348 -695	Second Highest Value
696 -1042	Third Highest Value
1043 -1096	Fourth Highest Value

PM_{10} data from the Commerce City monitoring site is provided in the table below:

EPA/OTAQ Table of Data

Year	N	Highest value	2nd highest	3rd highest	4th highest
2013	357	144	97	93	89
2012	308	113	86	76	75
2011	351	82	65	64	61

"N" = the number of days of valid data recovery.

As the number of days of data recovery at the Commerce City monitor is 1016 (357+308+351=1016), the third highest value should have become the background value for the PM_{10} hot-spot modeling assuming the method in Section 9.3.4. of the PM hot-spot guidance was used (with a total number of background concentration values between 696-1042, the appropriate monitor value is the third highest value).

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Year	N	Highest value	2nd highest	3rd highest	4th highest
2014	339	117	97	92	89
2013	357	144	97	93	89
2012	308	113	86	76	75

"N" = the number of days of valid data recovery."

Ex. 5 - Deliberative Process

Please let me know if you have any questions.

Thanks!

Tim

Tim Russ
Environmental Scientist
USEPA Region 8
Air Program
1595 Wynkoop Street (8P-AR)
Denver, CO 80202-1129
Ph. (303) 312-6479
Fax (303) 312-6064
e-mail: russ.tim@epa.gov

From: Berry, Laura
Sent: Thursday, December 01, 2016 6:47 AM
To: Russ, Timothy <Russ.Tim@epa.gov>; Patulski, Meg <patulski.meg@epa.gov>
Cc: Dresser, Chris <Dresser.Chris@epa.gov>
Subject: RE: Information Transmittal from FHWA/CDOT: I-70 East Project PM Hot-spot Modeling Background Monitor

So Tim, do we know what monitor value they're going to use for the background?

Laura Berry

(734) 214-4858

berry.laura@epa.gov

From: Russ, Timothy
Sent: Wednesday, November 30, 2016 10:54 AM
To: Berry, Laura <berry.laura@epa.gov>; Patulski, Meg <patulski.meg@epa.gov>
Cc: Dresser, Chris <Dresser.Chris@epa.gov>
Subject: Information Transmittal from FHWA/CDOT: I-70 East Project PM Hot-spot Modeling Background Monitor

Hi Everyone,

I went in and re-packaged Chris Horn's (FHWA) email of this morning to get a better view of what was presented to us (just read from the top down now). That way you can see the flow of the information and especially that from Gordon Pierce (CDPHE).

Thanks!

Tim

Tim Russ
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From: Horn, Chris (FHWA) [mailto:Chris.Horn@dot.gov]
Sent: Wednesday, November 30, 2016 7:21 AM
To: Russ, Timothy <Russ.Tim@epa.gov>; Houk, Jeff (FHWA) <Jeff.Houk@dot.gov>; Perritt, Karen (FHWA) <Karen.Perritt@dot.gov>; Henderson - CDOT, Vanessa <vanessa.henderson@state.co.us>
Cc: Jackson, Scott <Jackson.Scott@epa.gov>; Patulski, Meg <patulski.meg@epa.gov>; Berry, Laura <berry.laura@epa.gov>; Dresser, Chris <Dresser.Chris@epa.gov>; Anderson, Carol <Anderson.Carol@epa.gov>; Odendahl, Steve <Odendahl.Steve@epa.gov>; Dubey, Susmita <dubey.susmita@epa.gov>; Denawa, Mai <Denawa.Mai@epa.gov>
Subject: RE: Information Transmittal to FHWA/CDOT: I-70 East Project PM Hot-spot Modeling [WARNING: DKIM validation failed]

Tim,

Referred to FHWA

Referred to FHWA

Referred to FHWA

Referred to FHWA

Chris Horn, PE

Senior Area Engineer

Colorado Division

Federal Highway Administration

720-963-3017